Approved For Release 2003/08/05 CIA RDP78T05161A000200010092-6 L MAGERY ALYSIS **IVISION** PHOTOGRAPHIC INTELLIGENCE REPORT ANALYSIS OF SELECT 1964-65 ACTIVITY LAUNCH COMPLEXES A & B SSATC, USSR **Declass Review by NIMA/DOD 25**X **25**X CIA/PIR 61067 Nov 1965 DATE COPY Approved For Release 2003/08/05 : CIA-RDP78T05161A000200010092-6 40

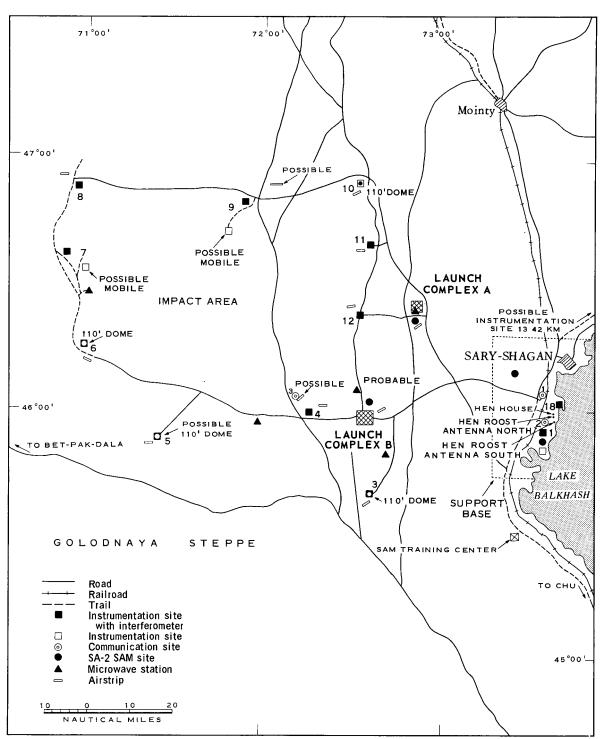
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LOCATION OF LAUNCH COMPLEX A AND LAUNCH COMPLEX B, SSATC, USSR.

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CIA IMAGERY ANALYSIS DIVISION

ANALYSIS OF SELECT 1964-65 ACTIVITY AT LAUNCH COMPLEXES A AND B SARY SHAGAN ANTIMISSILE TEST CENTER, USSR

INTRODUCTION

This report is in response to CIA requirements requesting a detailed analysis of certain objects imaged on recent photography of launch complexes at the Sary Shagan Antimissile Test Center, USSR. Some of these objects have been reported in Mission OAKS following rapid analysis; others have been discovered during more detailed analysis.

To increase the data input, isodensity recording analysis has been employed. In response to a specific requirement, copies of applicable isodensity recordings are made a part of this report. Special attention is directed to the statement printed on each recording and to the information below.

General Principles

Double Beam Microdensitometer used by the NPIC Technical Intelligence Division for these recordings, has been adapted to include recently developed isophotometer equipment. When used with the attachment, it is properly called an Isodensitracer (IDT).

The optical system of the IDT automatically makes a series of closely spaced parallel scans. For each scan of the specimen a corresponding coded parallel line is recorded, forming a contour map of the scanned area.

The code in the recorded lines indicates the amount of density change in known preset increments and also shows whether the density is increasing or decreasing. When density is increasing, the three-symbol code line is printed in the sequence: blank-dot-line-blank-dot-line. Whenever the d ensity is decreasing, the symbol sequence changes to: line-dot-blank-linedot-blank. Each symbol in the sequence represents a density increment and is continuously plotted until the density in the specimen changes by that increment; then the next symbol in the sequence is plotted.

When the IDT has completed a scan, recording the density profile along that single scan line in code, the pen lifts from the recording paper and both the specimen table and the recording table return to the starting X position. At the same time the specimen table and the recording pen step in the Y direction, then the next scan is begun. This sequence is repeated automatically until the instrument has mapped the density of the specimen area. Contours are thus formed by adjacent like symbols.

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Precise specimen-to-record magnifications can be set at from 1:1 to 1:1000 in the X direction as in the basic instrument and at from 1:1 to 1:3100 in the Y direction. The X and Y ratios can be set separately.

Reason for Caution

Though the isodensity trace has potential as an important tool for the photo/image interpreter, there is currently little confidence in the results achieved, due primarily to the lack of an adequate experience base.

One thing is certain, isodensity recording analysis and photo analysis go hand in hand. Though the photographic image can, to a large degree, be analyzed separately, the isodensity recording must be analyzed in conjunction with the photographic image from which the trace was produced. The quality and scale of the photographic image relates directly to the results achieved. Image degradations, caused by limitations of the photographic system, also degrade the isodensity trace. Caution must be used in establishing whether any minute density gradient portrayed in the recording relates directly to an object configuration. An irregular object may at time appear regular, and vice versa, due to illumination angle and surface reflectivity. As an example, object color, texture, shadows falling across the object, displacement due to obliquity, non stereo, and image edge gradient, are only a few of the factors which must be considered. Consequently a concurrent perceptual and objective analysis of the density trace, and the stereo photo image, must consider all known factors. Such an analysis can only be performed by a qualified photo/image interpreter, preferably one who personally operates the isodensitracer equipment.

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LAUNCH CO	OMPLEX B, SSATC		
Feature/Object/Activity	Photo Reference	Analysis	
Prime-mover with transporter at Launch Position B-3, Facility B, (Figures 1 and 1A).		A probable GALOSH missile canister on a transporter with an attached prime mover is located 35 feet in front (west) of the B-3 erector mechanism. The overall length measures 85 feet. The prime mover measures 20 feet and the probab GALOSH missile transporter 65 feet. This excellent photography permits a height measurement of 10 feet for the prime mover and 15 feet for the probable GALOSH canist	ole - 25
An object at Launch Position B-3, Facility B, Figure 1B)	·	A probable GALOSH missile canister approximately 65 feet long is at Launch Position B-3. It appears to be abutted to the erector mechanism-not engaged as	25 25

·	CIA IMAGERY ANALYSIS DIVISION	CIA/PIR-61067
Feature/Object/Activity	Photo Reference	Analysis
An object at Launch Positi B-3, Facility B, igure 1c).	on	A probable GALOSE missile canister abutted to the er mechanism at Laur Position B-3. It does not appear tengaged in the er as on The able GALOSE missicanister measures feet in length. is highly probable this is the same seen four days ear in the same position.
Vehicle on access road to launch pad, Facility A, (Figure 2), (Transporter 1). Vehicle in the Missile Assembly and Checkout area, (Figure 2), (Transporter 2).		prime mover with the porter trailer is parked on the accordance to the launce pad. Overall dimesions are approximately trailed the prime mover a simutely isodensity trace 3) reveals the tracargo/load (if an probably more region figured than the prime to argo/load on tracargo/load on tracargo/load on tracargo/load isodensity trace to a porter 2 parked in Missile Assembly out area (Figure The latter prime to and transporter to thave an overall desion of approximates.

CIA I	MAGERY AN	CIA/PIR-61067	
Feature/Object/Activity	Photo Reference	Analysis	
Object on service road to Facility A launch pad,		The image quality doe permit a meaningful analysis of the object. The object is possibly the missibly the missibly the missible parked in approximate the same location. I was also present in this location on	1y 2! 1le2! 2! 1t 2!
Elongated dark shape approximately 55 feet long, with little height on the west edge of Launch pad B-2, [Figure 5).		high quality mission, reveals that considerable dark stain is present be- tween concrete slab sections in the same area referenced on th left. This stain was not present on The feature seen on has little or no height and cannot be iden- tified. The isodensi recording for this feature (Figure 6) does not permit iden- tification.	e 2: 2: ty

	IA IMAGERY ANALYSIS DIVISION	CIA/PIR-61067
Feature/Object/Activity		Analysis
A vehicle parked at launche at Position B-4, Figure 5).	er	The object at Lau pad B-4 measures approximately feet in length an a probable GALOSH canister in posit possibly with the end of the canistent engaged between the erector mechanism Isodensity recording Figure 7.
An object at Launch Pad B-3,		This object is the erector mechanism on its turntable. There is no evide of a missile, mis canister, or tran porter at Launch B-3 on this date.
An object parked at Launch Position B-4, Facility B, (Figure 7A).		A probable GALOSH missile canister in position at La Position B-4 with aft end of the ca probably engaged the erector mecha. The forward porti of the probable cextends approximate 50 feet out in fraction (west) of the ere mechanism.
An object in position at Launch Position C-1, Facility C, Figure 7A).		The aft end of a probable GALOSH m canister is engage the erector mecha

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CIA/PIR-61067

Feature/Object/Activity

Photo Reference

Analysis

at Launch Position C-l which is adjacent to the triad facility. It measures approximately 70 feet, extending from the east edge of the erector mechanism through the erector mechanism. The probable GALOSH missile canister "points" in a westsouth-westerly direction.

LAUNCH COMPLEX A, SSATC

A 40-55 foot object parked near Launch Position 1, Launch Site 3, (Figure 8).

The reported dark object is probably two objects rather than one. A probable missile on launcher or a launcher alone constitutes one of the objects, and a separate, unidentified, vehicle measuring approximately 35 feet

long constitutes the other (Figure 9).

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Feature/Object/Activity Unidentified elongated objects in the area of Launch Position 5 and 6, Launch Site 3 (Figure 10). Yeigure 10). A possible missile measuring 30 to 45 feet long on the launcher at Launch Position 5, Launch Site 3, Figure 12).	K 1	Approved For Release 20032000	CIA-RDP78T05161
Unidentified elongated objects in the area of Launch Position 5 and 6, Launch Site 3, (Figure 10). Four possible transporters at Launch Site 1, (Figure 10). A possible missile measuring 30 to 45 feet long on the launcher at Launch Position 5, Launch Site 3,		CIA IMAGERY	ANALYSIS DIVISION
A possible missile measuring 30 to 45 feet long on the launcher at Launch Position 5, Launch Site 3,	< 1	Unidentified elongated objects in the area of Launch Position 5 and 6, Launch Site 3,	
30 to 45 feet long on the launcher at Launch Position 5, Launch Site 3,		at Launch Site 1,	
		30 to 45 feet long on the launcher at Launch Position 5, Launch Site 3,	

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Analysis

At Launch Position 5, Launch Site 3, an unidentified object measuring approximately 35 feet long, including the launcher, is pointing toward the access road from the launch point (Figure 11). Two unidentified objects are still located in the ready end of the launch position, as previously reported. A probable launcher is present at the launch point of Position 6. The isodensity recording did not reveal an elongated object at the latter position.

Four possible transporters approximately 40 feet long, parked to the rear of Launch Site 1.

A possible launcher approximately 35 feet long, with its long axis oriented with the approximate long axis of the revetment. The isodensity recording is Figure 13.

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Feature/Object/Activity

Three large objects (80 to 100 feet long), observed southwest of Launch Sites 3 and 4,

Analysis

This mission actually revealed four elongated dark shapes, as annotated 1 through 4 in Figure 14. The measurement of these dark shapes was done on the photographic image where photo analysis could not confirm or negate the lack of continuity within each dark mass. Measurements were as follows:

> Object 1 - 75 feet total

Object 2 - 105 feet total

Object 3 - 105 feet total

Object 4 - 85 feet total

An isodensity trace of objects 2, 3, and 4 at only 200 magnifications and a density increment of .08D did not reveal sufficient detail, nor did it record the density range present in the image (Figure 15).

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Analysis

Consequently, isodensity recordings at 1,000 magnifications and .04D density increment were produced for each of these objects. This is identical to the techniques employed on most of the previous recordings. The results are shown in Figures 16 through 19.

The isodensity recording for object 1 (Figure 16) is distorted on one end by a scratch in the emulsion, however, the remainder of the object is satisfactorily portrayed. The object is suspected to be a missile with the possibility that the southern most density bulge represents the sustainer wings (the nose of the suspect missile is pointing south) and the smaller bulge just north of it possibly the booster section. The distortion caused by the emulsion scratch prevents identification of the northern portion of the mass.

Object 2 (Figure 17) is probably at least three

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Feature/Object/Activity

Photo Reference

Analysis

separate objects. pattern of density changes and the irregular configuration of the largest mass suggest a suspect empty missile transporter.

Object 3 (Figure 18) does not resemble either object 1 or object 2, however, it probably is an irregular object or objects.

Object 4 (Figure 19) probably consists of more than two separate objects located on the narrow portion of the road, as depicted in Figure 20. The latter drawing shows the approximate location of each of the objects, shown on a line drawing made from a mission.

CONCLUSIONS

Though an adequate technique for performing measurements on isodensity recordings must yet be developed, it is believed the recordings shown in this report have been, in part, helpful in the analysis. As the total analysis technique is further improved, it is believed that more isodensity recording will be demanded by the photo/image analyst.

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However, the consumer must recognize that the time required to com a specific project will be appreciably increased by the addition of thi technique. As regards the substantive portion of this report, it is believed analysis, when combined with other referenced information, probably ind that a GALOSH type canister is yet to be photographed at Sary Shagan La Complex A. MENSURATION All measurements have been made on photography by the CIA/IAD projanalyst, using scale factors derived from NPIC/TID measurements. NPIC/generally considers accuracy of measurements as follows: From phoraphy, on the order of plus or minus 5 feet or 5 percent, whichever is greater. With good quality hotography, plus or minus 10 feet or percent, whichever is greater. The percentage of error decreases as distance increases and vice versa. Experience has revealed that measur performed by the CIA/IAD project analyst have an accuracy factor which generally similar to that of the NPIC/TID measurements used for scale f however, they should be considered as approximate only. REFERENCES			/ /3 O/ E
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analysis, when combined with other referenced information, probably ind that a GALOSH type canister is yet to be photographed at Sary Shagan La Complex A. MENSURATION All measurements have been made on photography by the CIA/IAD projanalyst, using scale factors derived from NPIC/TID measurements. NPIC/generally considers accuracy of measurements as follows: From phoraphy, on the order of plus or minus 5 feet or 5 percent, whichever is greater. With good quality hotography, plus or minus 10 feet or percent, whichever is greater. The percentage of error decreases as distance increases and vice versa. Experience has revealed that measur performed by the CIA/IAD project analyst have an accuracy factor which generally similar to that of the NPIC/TID measurements used for scale f however, they should be considered as approximate only.	a specific project	onsumer must recognize that the twill be appreciably increased by	time required to comp the addition of this
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	LIST OF ILLUSTRATIONS
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Figure	1B - Isodensity Trace of Object, Position B-3, Launch Complex B,
Figure	1C - Isodensity Trace of Object, Position B-3, Launch Complex B,
	2 - Photo, Operations Area, Launch Complex B, 3 - Isodensity Trace of Transporter 1, Facility A, Launch Complex
Figure	4 - Isodensity Trace of Transporter 2, Missile Assembly Area, Laur Complex B,
	5 - Photo, Launch Complex B, 6 - Isodensity Trace of Feature, Position B-2, Launch Complex B,
Figure	7 - Isodensity Trace of Probable GALOSH Canister, Position B-4, Launch Complex B,
-	7A - Photo of Launch Complex B, 8 - Photo of Launch Sites 1 Through 4, Launch Complex A.
Figure	9 - Isodensity Trace of Position 1, Launch Site 3, Launch Complex
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Figure	12 - Photo of Launch Sites 1 Through 4, Launch Complex A,
Figure	13 - Isodensity Trace of Position 5, Launch Site 3, Launch Complex
Figure	14 - Photo of Object near Launch Sites 3 and 4, Launch Complex A,
Figure	15 - Isodensity Trace of Objects 2, 3, and 4, Launch Site 3, Launch
Figure	Complex A, 16 - Isodensity Trace of Object 1, Launch Site 3, Launch Complex A,

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Figure 17 - Isodensity Trace of Object 2, Launch Site 3, Launch Complex A, Figure 18 - Isodensity Trace of Object 3, Launch Site 3, Launch Complex A,

Figure 19 - Isodensity Trace of Object 4, Launch Site 3, Launch Complex A,

Figure 20 - Line Drawing Showing the Location of Objects 1 Through 4, Launch Site 3, Launch Complex A,

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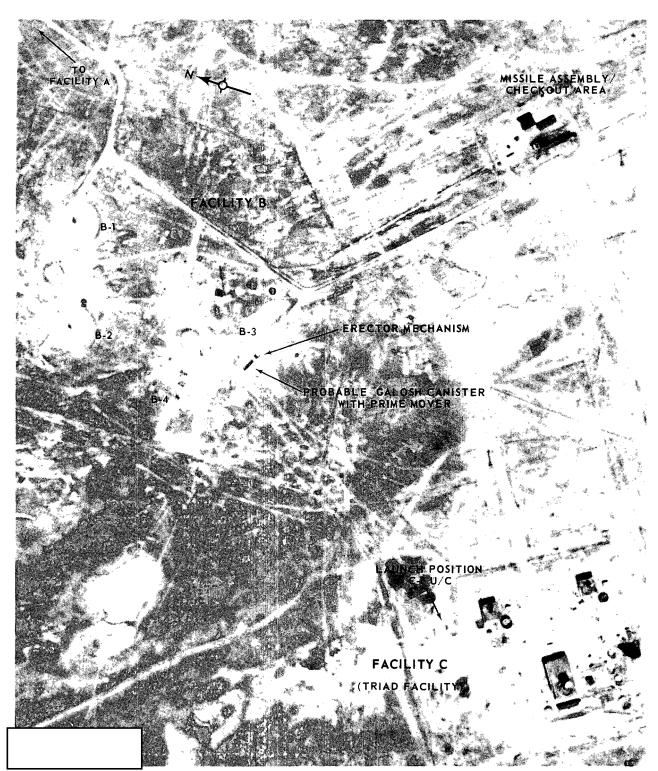


FIGURE 1. PROBABLE GALOSH MISSILE WITH PRIME MOVER AT FACILITY B, LAUNCH COMPLEX B, SSATC.

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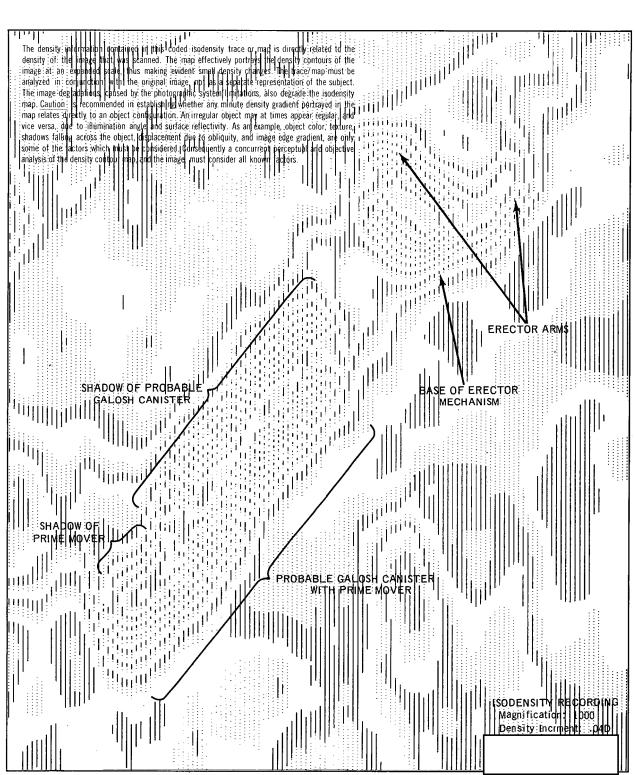


FIGURE 1A. PROBABLE GALOSH MISSILE CANISTER WITH PRIME MOVER, FACILITY B, LAUNCH COMPLEX B, SSATC.

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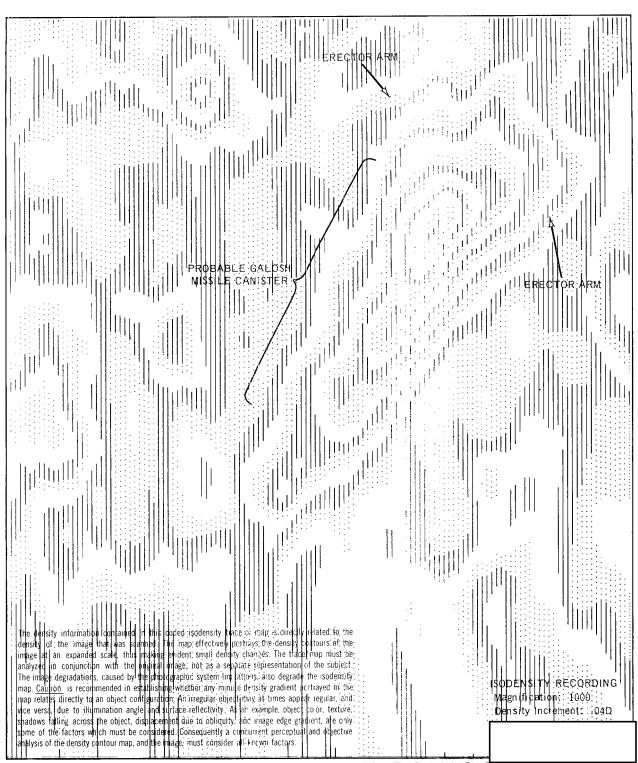


FIGURE 1B. PROBABLE GALOSH MISSILE CANISTER, FACILITY B, LAUNCH COMPLEX B, SSATC.

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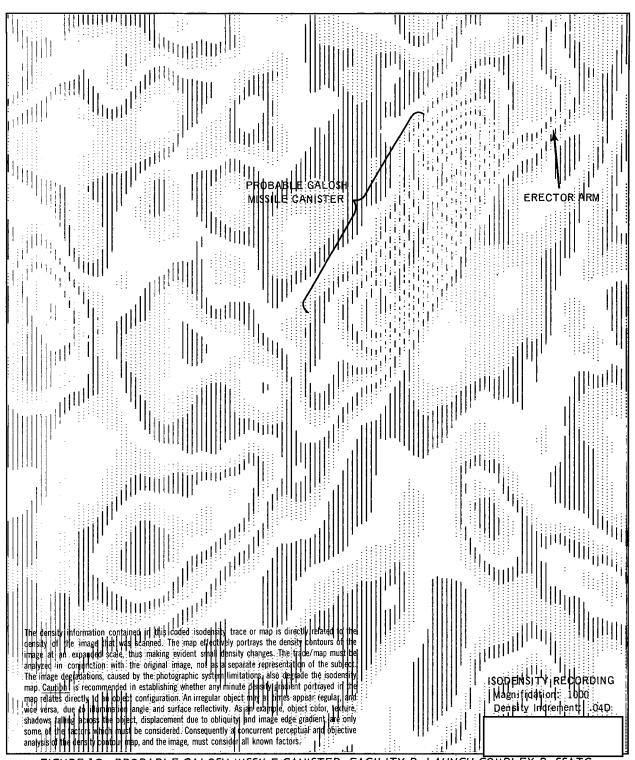


FIGURE 1C. PROBABLE GALOSH MISSILE CANISTER, FACILITY B, LAUNCH COMPLEX B, SSATC.

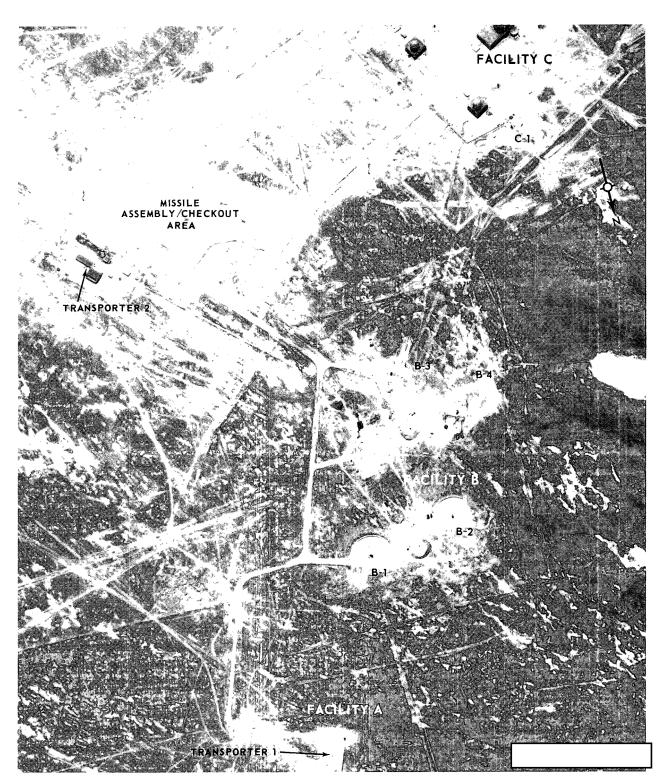


FIGURE 2. OPERATIONS AREA, LAUNCH COMPLEX B, SSATC, USSR.

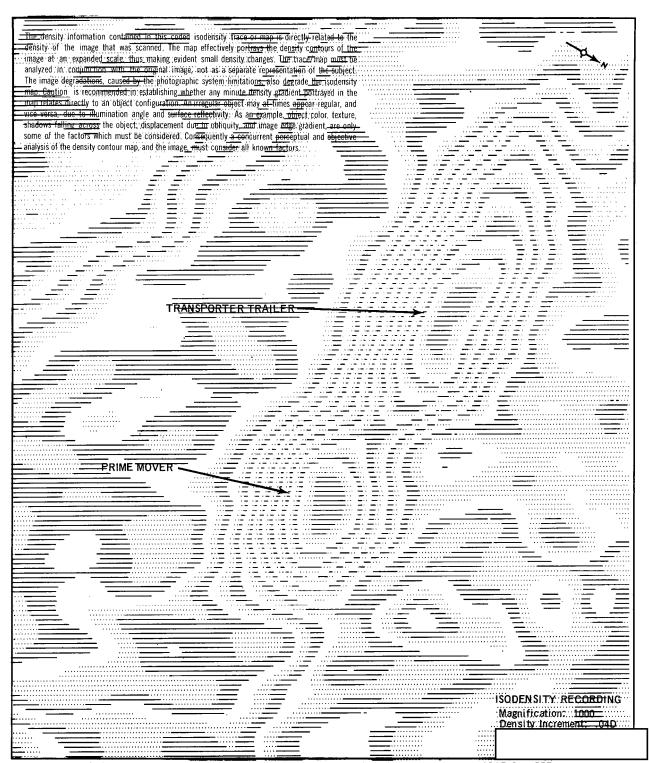


FIGURE 3. TRANSPORTER 1 AT FACILITY A, LAUNCH COMPLEX B, SSATC, USSR

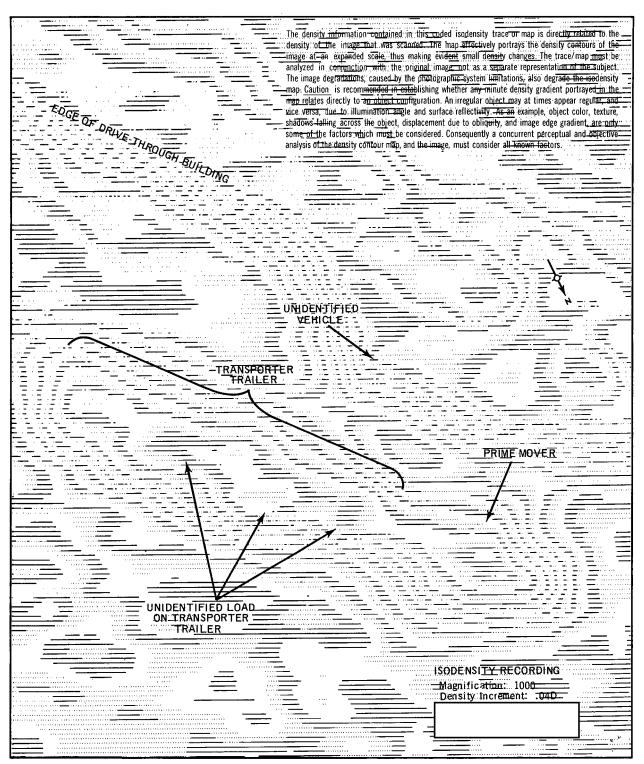


FIGURE 4. TRANSPORTER 2 AT LAUNCH COMPLEX B, SSATC, USSR

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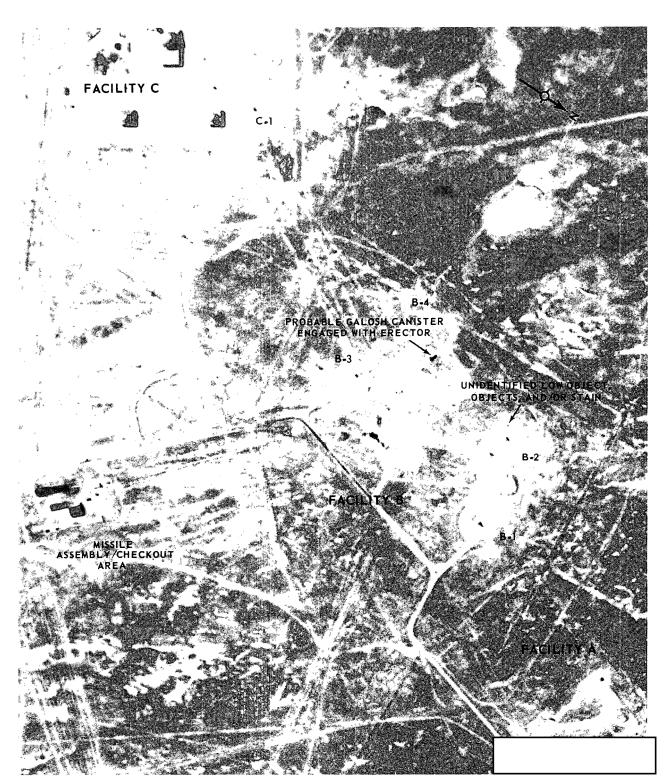


FIGURE 5. OPERATIONS AREA, LAUNCH COMPLEX B, SSATC, USSR.

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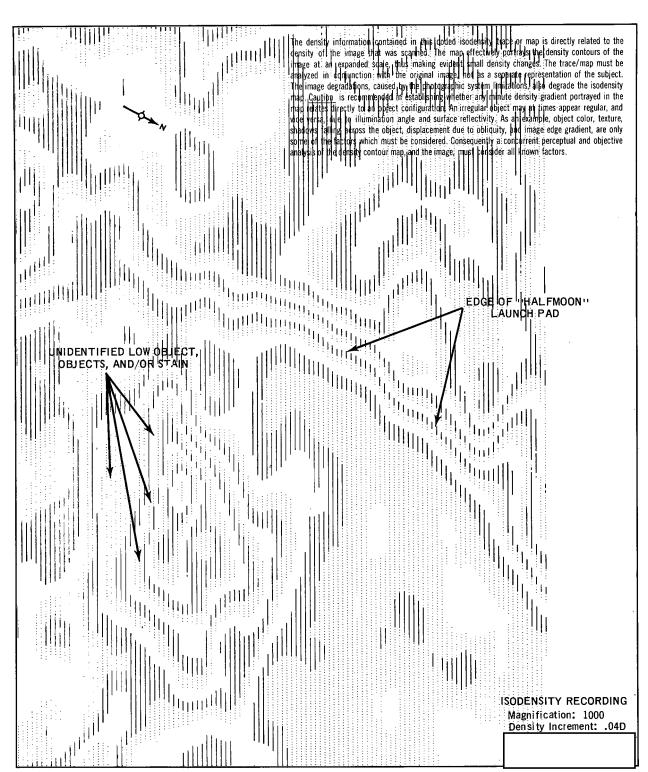


FIGURE 6. LAUNCH POSITION B-2, LAUNCH COMPLEX B, SSATC, USSR.

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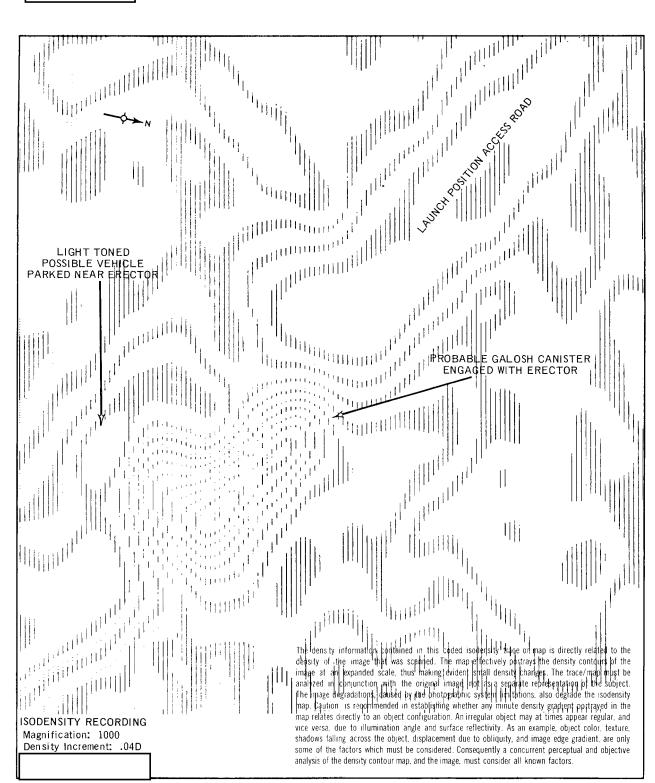


FIGURE 7. LAUNCH POSITION B-4, LAUNCH COMPLEX B, SSATC, USSR.

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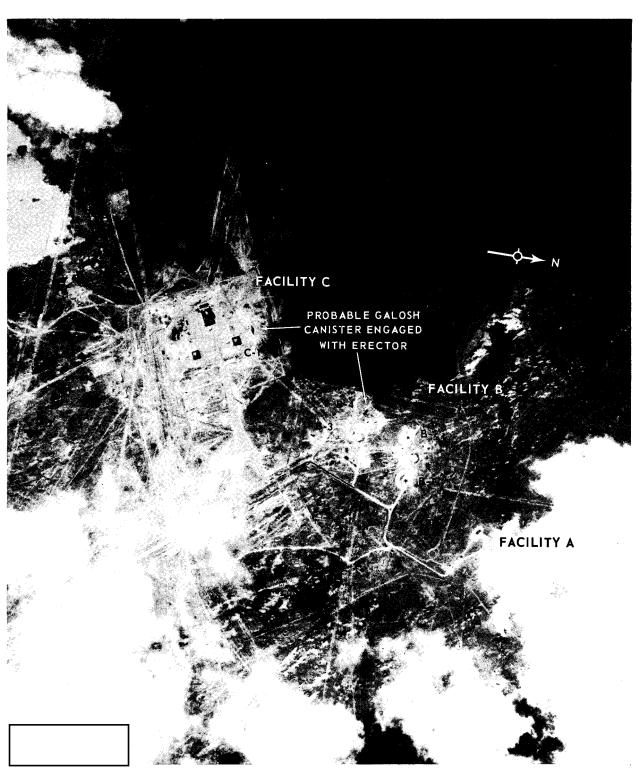


FIGURE 7A. OPERATIONS AREA, LAUNCH COMPLEX B, SSATC, USSR.

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FIGURE 8. SOUTH AREA, LAUNCH COMPLEX A, SSATC, USSR.

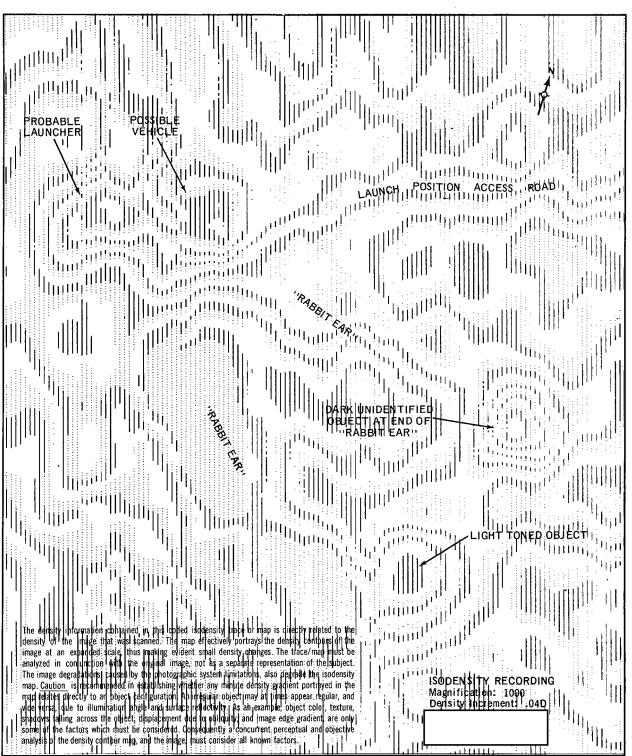


FIGURE 9. LAUNCH POSITION 1, LAUNCH SITE 3, LAUNCH COMPLEX A, SSATC, USSR.

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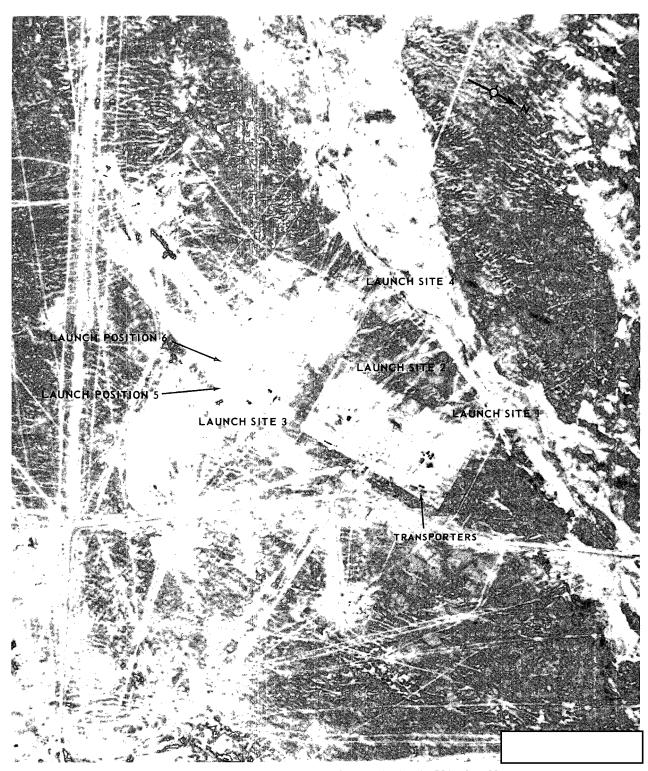


FIGURE 10. SOUTH AREA, LAUNCH COMPLEX A, SSATC, USSR.

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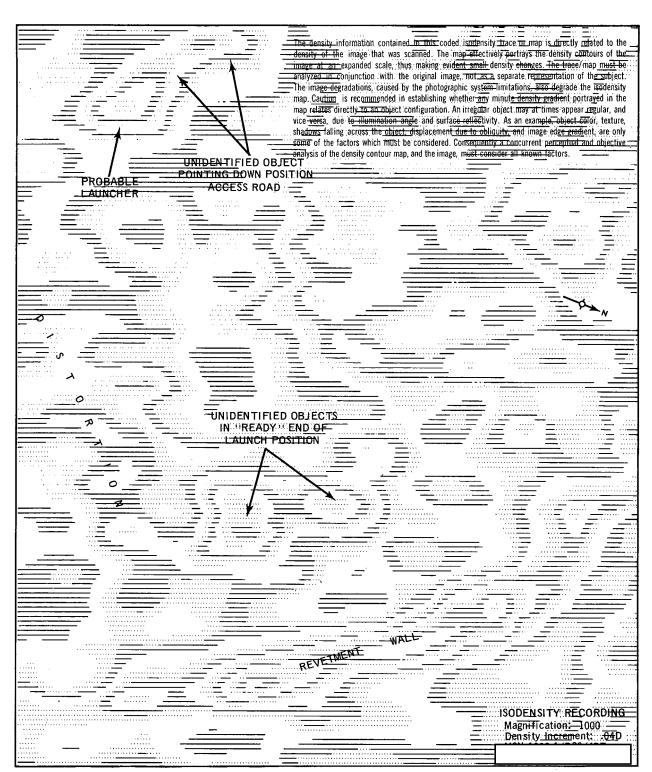


FIGURE 11. LAUNCH POSITION 5, LAUNCH SITE 3, LAUNCH COMPLEX A, SSATC, USSR.

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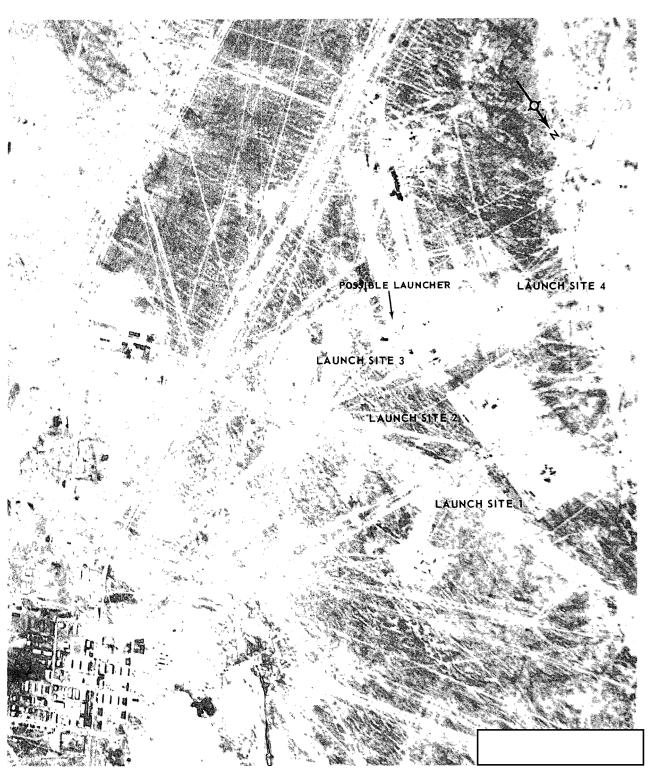


FIGURE 12. SOUTH AREA, LAUNCH COMPLEX A, SSATC, USSR.

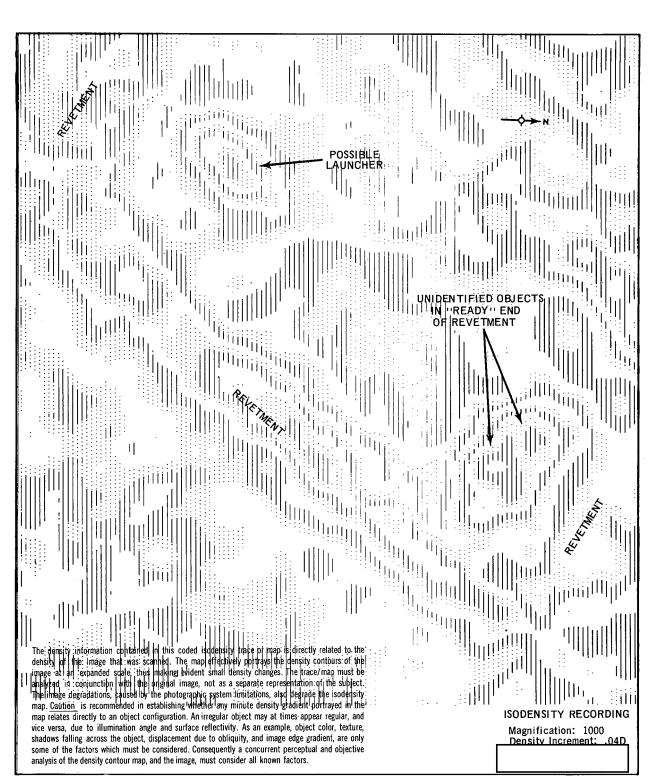


FIGURE 13. LAUNCH POSITION 5, LAUNCH SITE 3, LAUNCH COMPLEX A, SSATC, USSR

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FIGURE 14. LAUNCH COMPLEX A, SSATC, USSR.

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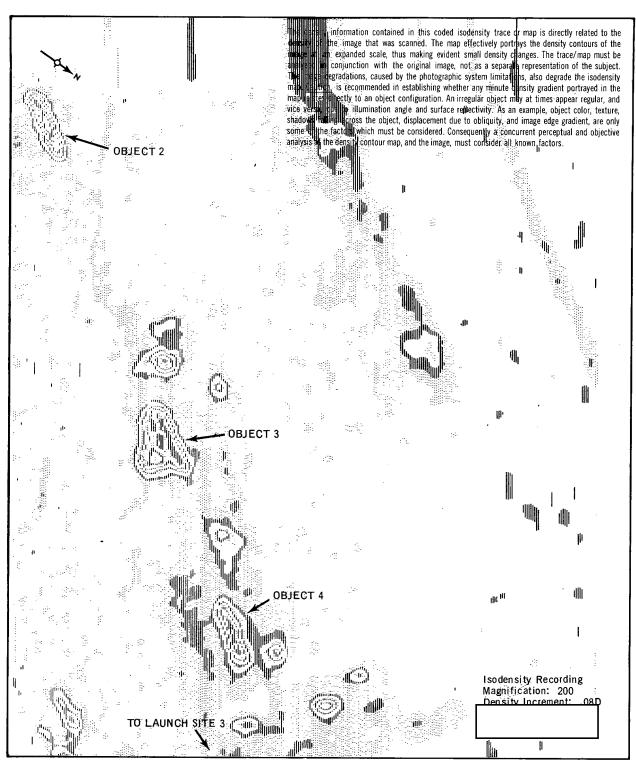
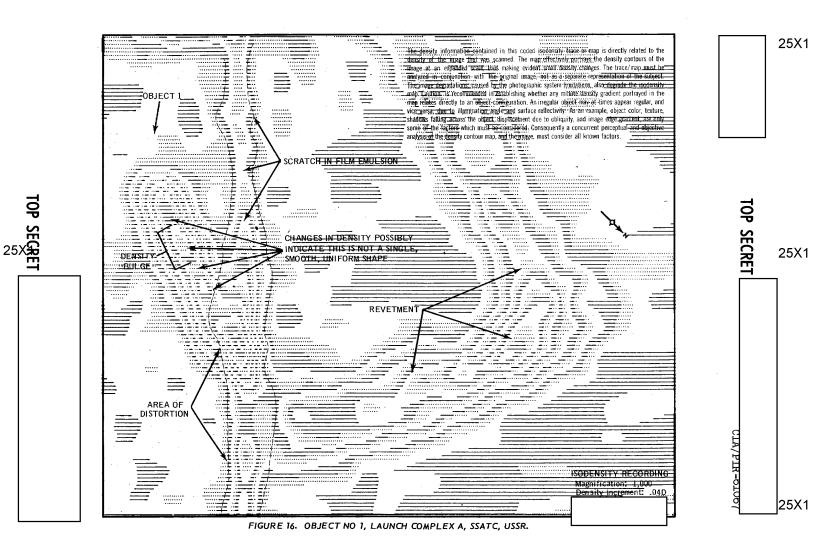


FIGURE 15. LAUNCH COMPLEX A, SSATC, USSR.

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25X1

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25X1

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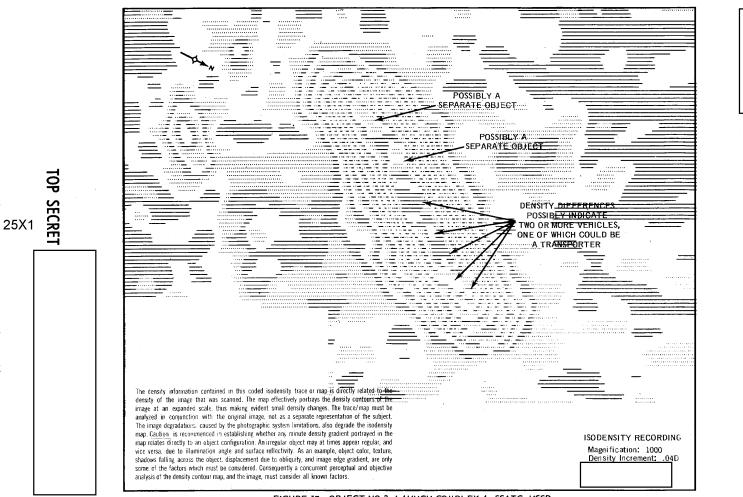
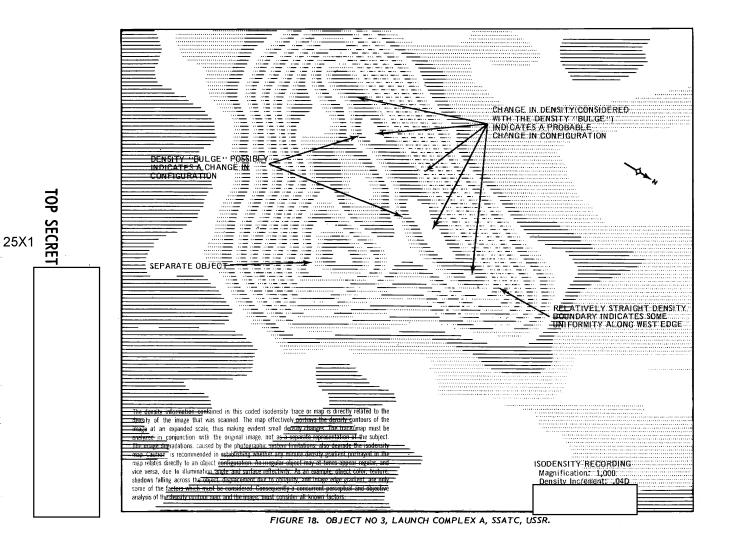
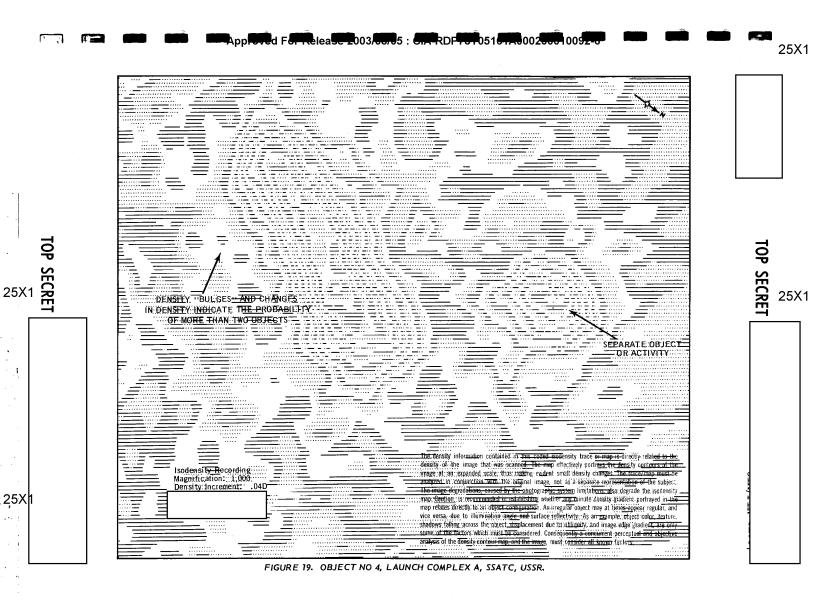


FIGURE 17. OBJECT NO 2, LAUNCH COMPLEX A, SSATC, USSR.





Κ1 .

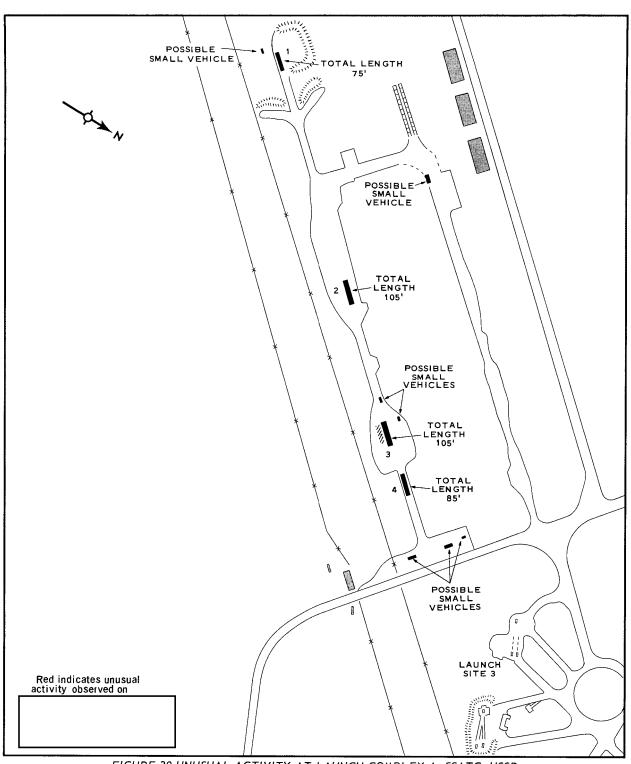


FIGURE 20. UNUSUAL ACTIVITY AT LAUNCH COMPLEX A, SSATC, USSR.

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